

SYSTEM AND METHOD FOR VIRTUAL INTERACTIVE DESIGN AND
EVALUATION AND MANIPULATION OF VEHICLE MECHANISMS

ABSTRACT OF THE DISCLOSURE

5 A system and method for virtual interactive design
and evaluation and manipulation of a vehicle mechanism using a
haptic-user interface is provided. The system includes a
computer system and a haptic interface operatively in
communication with the computer system, whereby the haptic
10 interface includes a haptic end effector device for
transmitting information between a user and a digital model as
the user interactively creates, modifies, and evaluates
kinematic and dynamic properties of the vehicle mechanism
using the haptic end effector device.